

PRELIMINARY AMENDMENT

U.S. Appln. No.: 10/530,674

Attorney Docket No.: Q87401

AMENDMENTS TO THE SPECIFICATION

Please replace the present Specification filed on April 8, 2005, with the attached
Substitute Specification. Also, submitted herewith is a marked up copy of the Substitute
Specification.

Substitute Specification

11/07/05

accepted/entered

TNN

6/26/07



Substitute Specification
entered
JW
6/26/07
(12 pages)

SPECIFICATION

SERIAL CONFIGURATION LINEAR MOTOR

[Technical Field]

The present invention relates to a serial configuration linear motor which, thanks for having a driving structure consisting of a plurality of linear movers, facilitates handling in the course of assembly; which can cancel cogging force; and which can provide thermal protection of the movers.

[Related Art]

Fig. 6 shows a related-art linear motor.

In the drawing, reference numeral 1' denotes a mover of the related-art linear motor constituted of a single armature; and reference numeral 6' denotes a stator constituted of a magnetic field originating from a plurality of permanent magnets. Meanwhile, the armature has a polyphase balancing winding. The linear motor is configured such that the mover 1' and the stator 6' face each other with a gap therebetween.

As shown in Fig. 6, the related-art linear motor has such a mechanism that a single moving member is driven by a single linear motor mover 1' (see, e.g., JP-A-2000-308328).

More specifically, the related-art linear motor is configured as follows for the purpose of facilitating connection with regard to crossover lines and neutral points of the armature coils, and increasing thrust per unit volume of a core block.